

SECTION 05120 - STRUCTURAL STEEL

A. SUMMARY

1. Structural [**and Architecturally Exposed**] Steel Items:
 - a. Beams, girders, purlins, girts.
 - b. Bracing.
 - c. Columns, posts.
 - d. Crane rails.
 - e. Door frames as part of the structural frame.
 - f. Floor plates.
 - g. Base and bearing plates.
 - h. Leveling plates, wedges, and shims.
 - i. Marquee or canopy framing.
 - j. Machinery foundations attached to the structural frame.
 - k. Roof frames.
 - l. Shear connectors.
 - m. Struts, tie rods, and sag rods.
 - n. Trusses.

B. QUALITY ASSURANCE

1. Fabricator: Participant in AISC's Quality Certification Program and be designated an AISC-Certified Plant.
2. Requirements: AISC.
3. Mockups for each form of architecturally exposed structural steel.

C. MATERIALS

1. Structural Steel: [**Carbon**] [**High-strength, low-alloy columbium vanadium**] [**High-strength, low alloy**].
2. Structural Steel Tubing: [**Cold formed**] [**Hot formed**].
3. Steel pipe.
4. Castings: [**Carbon steel**] [**High-strength steel**].
5. Anchor rods, bolts, nuts, and washers.
6. Bolts, Nuts, and Washers: [**Nonhigh strength**] [**High strength**].
7. Primer: [**Modified alkyd**] [**Alkyd**] [**Latex**] [**Red oxide**] [**Fabricator's standard**] [**Nonasphaltic**].

8. Grout: [**Cement**] [**Metallic, shrinkage resistant**] [**Nonmetallic, shrinkage resistant**].
9. Prefabricated Building Columns: [**Four-**] [**Three-**] [**Two-**] [**One-**]hour rating.

D. SOURCE QUALITY CONTROL

1. Contractor will engage a testing agency to perform shop inspections and tests.

E. FIELD QUALITY CONTROL

1. Testing Agency: Contractor employed.

END OF SECTION 05120